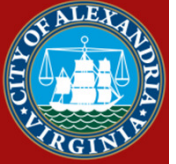




# **Union Street Corridor Study**

Waterfront Commission Special Meeting  
June 21, 2012



# Project Team

- City of Alexandria
- Toole Design Group
  - Tina Fink, P.E. – Project Manager
  - Dan Goodman, AICP, LEED-AP – Senior Planner
  - Lauren Kaufmann – Staff Engineer
- Quality Counts





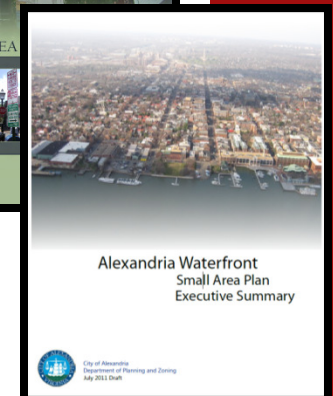
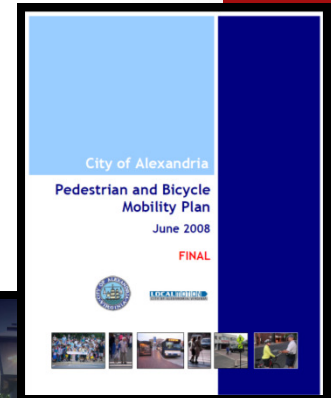
# Agenda

- Project Overview
  - Goals and challenges
  - Scope elements
  - Project schedule
- Previous plans and studies
- Status of ongoing work
- Discussion questions



# Project Goals and Challenges

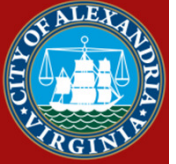
- Build upon previous studies
- Facilitate a vibrant waterfront
- Address parking and circulation issues
- Enhance safety for all modes
- Implement Complete Streets
- Balance needs:
  - Of all users
  - On different days and times of the week



# Study Area & Key Scope Elements

- Existing Transportation Conditions
  - Field Assessments
  - Traffic Counts (all modes!)
  - Parking
  - Overnight Parking
  - Delivery Truck Activity
  - Motorcoach Activity
  - Crash Data
- Public Engagement
- Alternatives and Recommendations





# Project Schedule

| TASK                              | MAY | JUNE | JULY | AUG | SEPT | OCT |
|-----------------------------------|-----|------|------|-----|------|-----|
| Fieldwork/Data Collection         |     |      |      |     |      |     |
| Analysis and Documentation        |     |      |      |     |      |     |
| Develop & Refine Recommendations  |     |      |      |     |      |     |
| Waterfront Commission Meetings    |     | X    |      | X   | X    |     |
| Public Meeting                    |     |      |      |     |      |     |
| Final Report                      |     |      |      |     |      |     |
| Planning Commission Meeting       |     |      |      |     |      |     |
| Transportation Commission Meeting |     |      |      |     |      |     |
| City Council Meeting              |     |      |      |     |      |     |

# Waterfront Commission Input

Meeting #1:  
June 21

| JUNE 2012 |     |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|-----|
| SUN       | MON | TUE | WED | THU | FRI | SAT |
|           |     |     |     |     | 1   | 2   |
| 3         | 4   | 5   | 6   | 7   | 8   | 9   |
| 10        | 11  | 12  | 13  | 14  | 15  | 16  |
| 17        | 18  | 19  | 20  | 21  | 22  | 23  |
| 24        | 25  | 26  | 27  | 28  | 29  | 30  |

Provide input on  
issues and concerns in  
the study area

Meeting #2:  
Aug 28

| AUGUST 2012 |     |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|-----|
| SUN         | MON | TUE | WED | THU | FRI | SAT |
|             |     |     | 1   | 2   | 3   | 4   |
| 5           | 6   | 7   | 8   | 9   | 10  | 11  |
| 12          | 13  | 14  | 15  | 16  | 17  | 18  |
| 19          | 20  | 21  | 22  | 23  | 24  | 25  |
| 26          | 27  | 28  | 29  | 30  | 31  |     |

Provide preferences  
and comments on  
design alternatives  
and recommendations

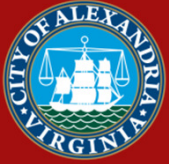
Meeting #3:  
Sept 18

| SEPTEMBER 2012 |     |     |     |     |     |     |
|----------------|-----|-----|-----|-----|-----|-----|
| SUN            | MON | TUE | WED | THU | FRI | SAT |
| 30             |     |     |     |     |     | 1   |
| 2              | 3   | 4   | 5   | 6   | 7   | 8   |
| 9              | 10  | 11  | 12  | 13  | 14  | 15  |
| 16             | 17  | 18  | 19  | 20  | 21  | 22  |
| 23             | 24  | 25  | 26  | 27  | 28  | 29  |

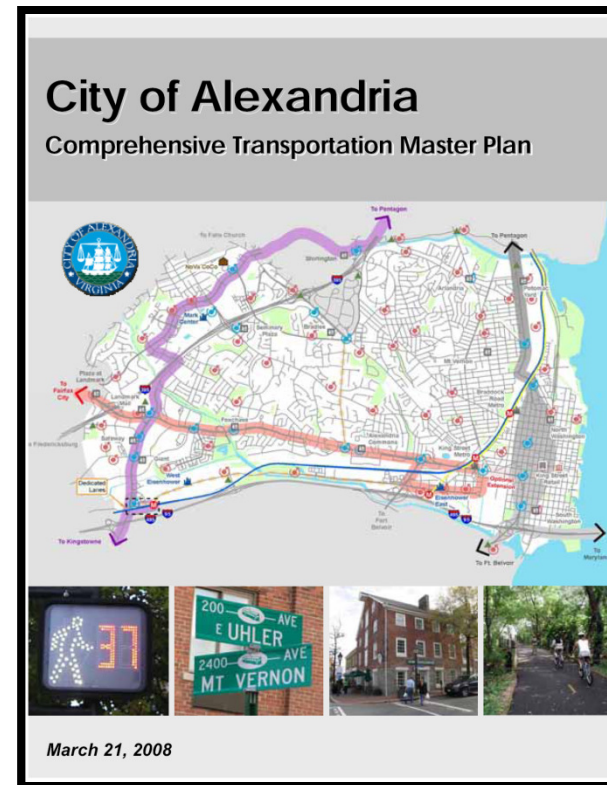
Select preferred  
design alternative



# Comprehensive Transportation Master Plan

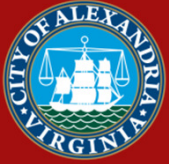


- March 2008
- Provides the overarching vision and goals for our study
  - Multimodal emphasis
  - Balance between travel efficiency and quality of life
  - Transportation choice
  - Infrastructure recommendations
  - Accessibility and mobility





# Alexandria Waterfront Small Area Plan

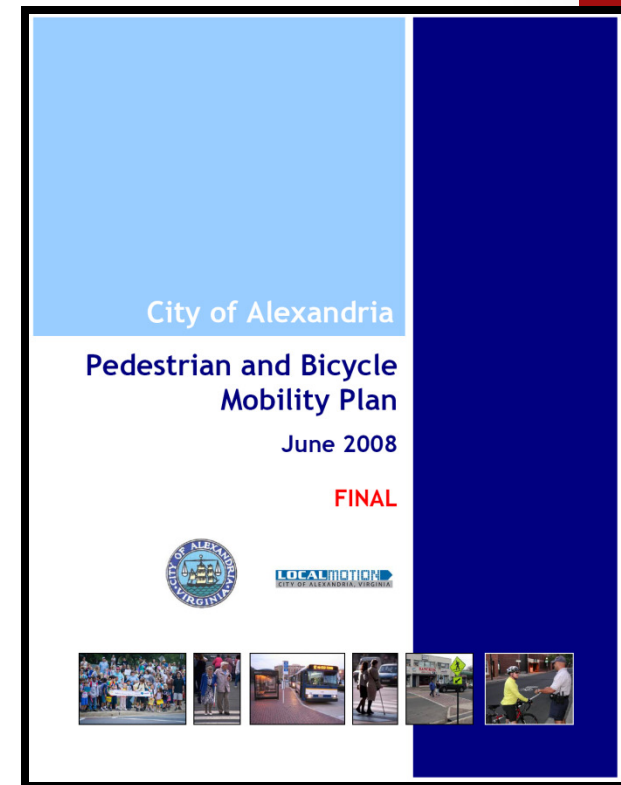


- July 2011
- Informs our understanding of future land use and development changes in the study area
- Goals
  - Connected
  - Dynamic
  - Manageable
- Public space
- Parking
- Transportation
  - Signal timing and new signals
  - Pedestrian congestion
  - Wayfinding
  - Safety retrofits
  - Accessibility
  - Bike share
  - Enforcement
  - Transit

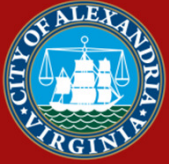
# Pedestrian and Bicycle Mobility Plan



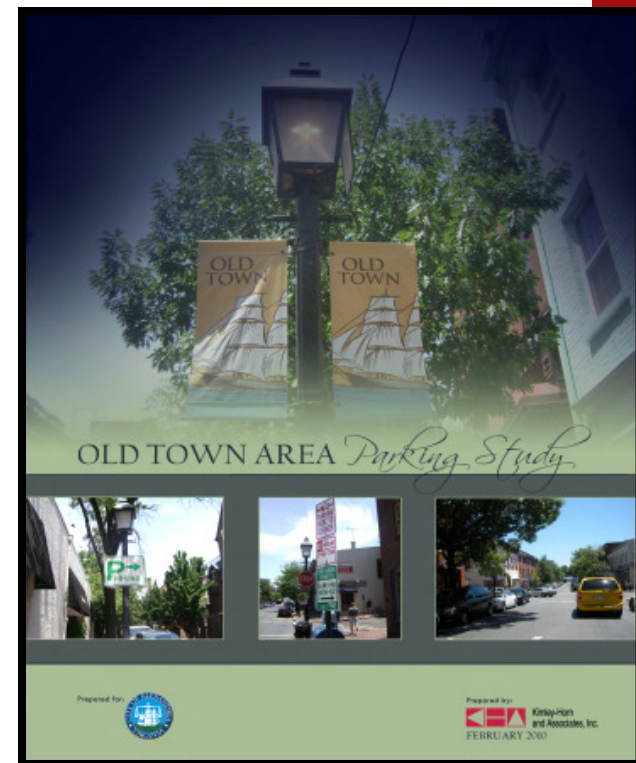
- June 2008
- Provides starting point for recommended bike and pedestrian improvements and how they might be prioritized
  - Citywide pedestrian and bike data collection and recommendations
  - Prioritization
  - Bicycle and Pedestrian Priority Streets



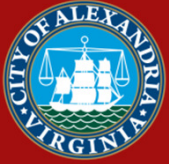
# Old Town Parking Study and Implementation Plan



- February 2010
- Provides baseline understanding of broader parking issues and opportunities in Old Town, which we'll:
  - Apply to study area
  - Test based on current data collection
  - Expand upon as needed
- Garage and wayfinding strategies



# Alexandria Waterfront Traffic Impact Study



- May 2010
- Provides baseline traffic analysis, which we'll use to evaluate what we're observing today
  - Key intersections focus on access to/from Washington Street
  - Provides recommendations for all modes and evaluates impact of potential improvements

## Alexandria Waterfront Traffic Impact Study

*Prepared for:*



City of Alexandria  
301 King Street, City Hall  
Alexandria, Virginia 22314

*Prepared by:*

**AECOM**

675 North Washington Street, Suite 300  
Alexandria, Virginia 22314  
(703) 549-8728

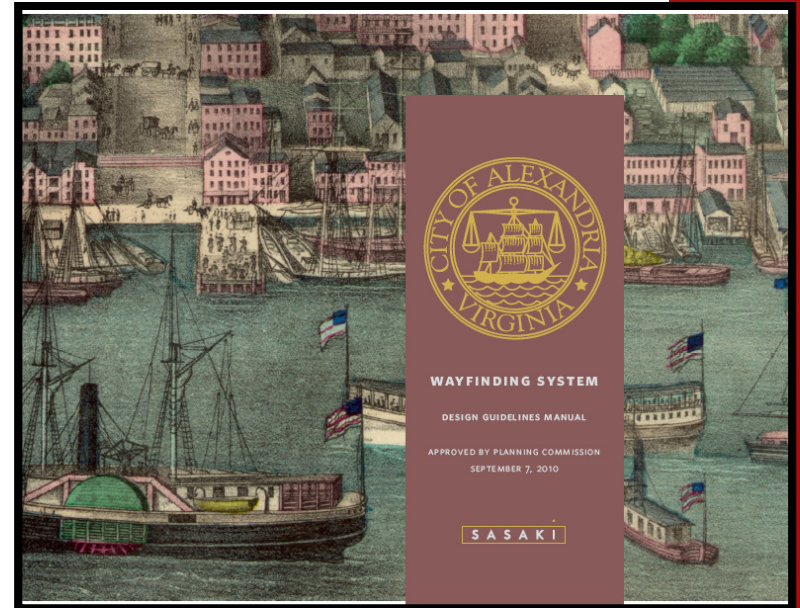
*Date of Submission:*

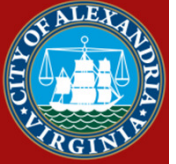
May 2010



# Other Plans and Studies

- Wayfinding System Design Guidelines Manual (September 2010)
- Motorcoach Task Force (2008-2010)
- Windmill Hill Park Consensus Plan Development (January 2002)
- Other





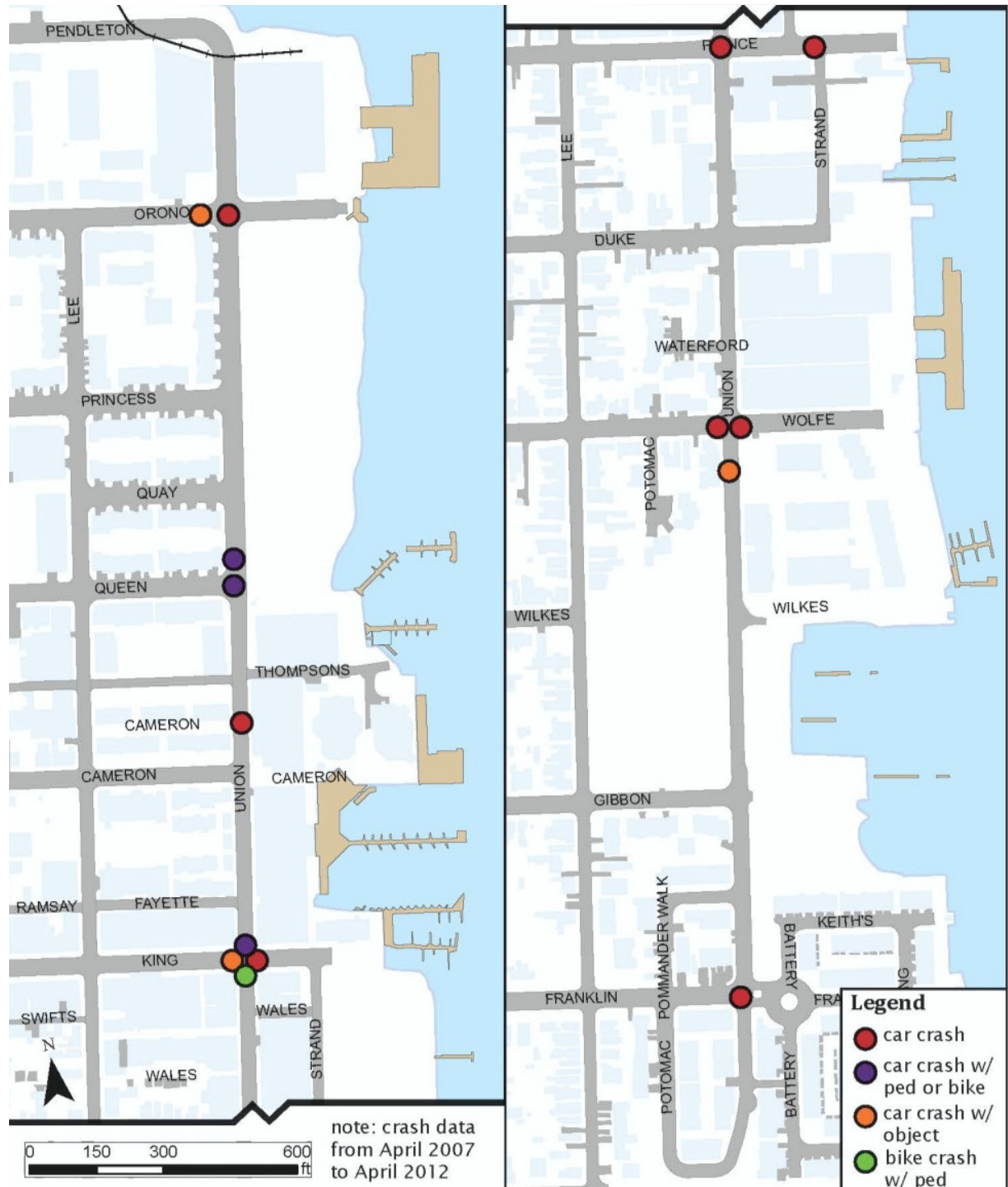
# Status of Ongoing Work

- Safety Analysis
- Union Street & King Street Behavior Analysis
- Delivery Truck Activity
- Daily Traffic Counts
- Turning Movement Counts
- Stakeholder Interviews



# Safety Analysis

- Only a few reported crashes
- “Near misses” aren’t reported
- User comfort not captured





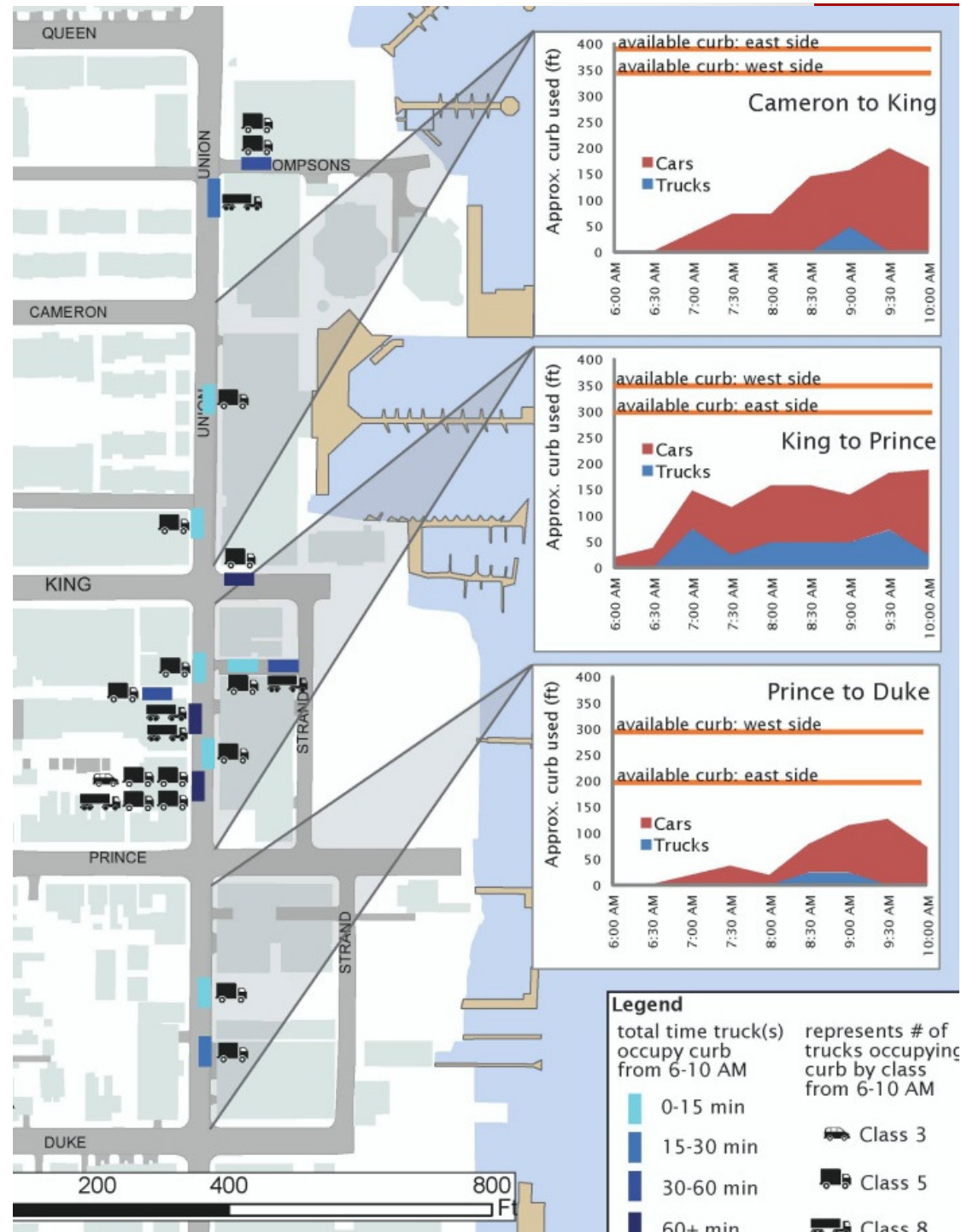
# Union Street & King Street





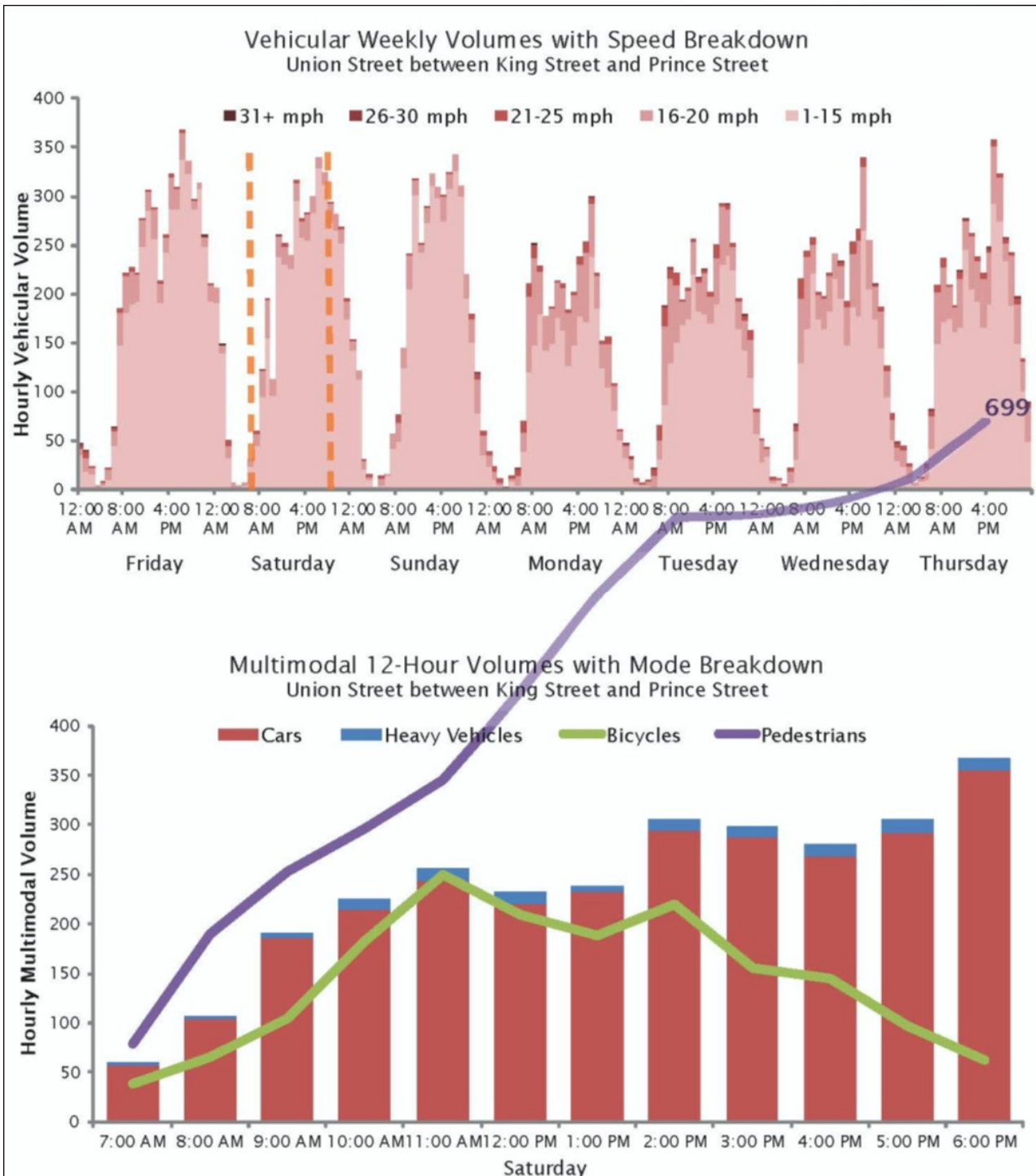
# Delivery Truck Activity

- Deliveries started at 7 AM
- Busiest between King and Prince
- More activity on the weekday



# Daily Traffic Counts

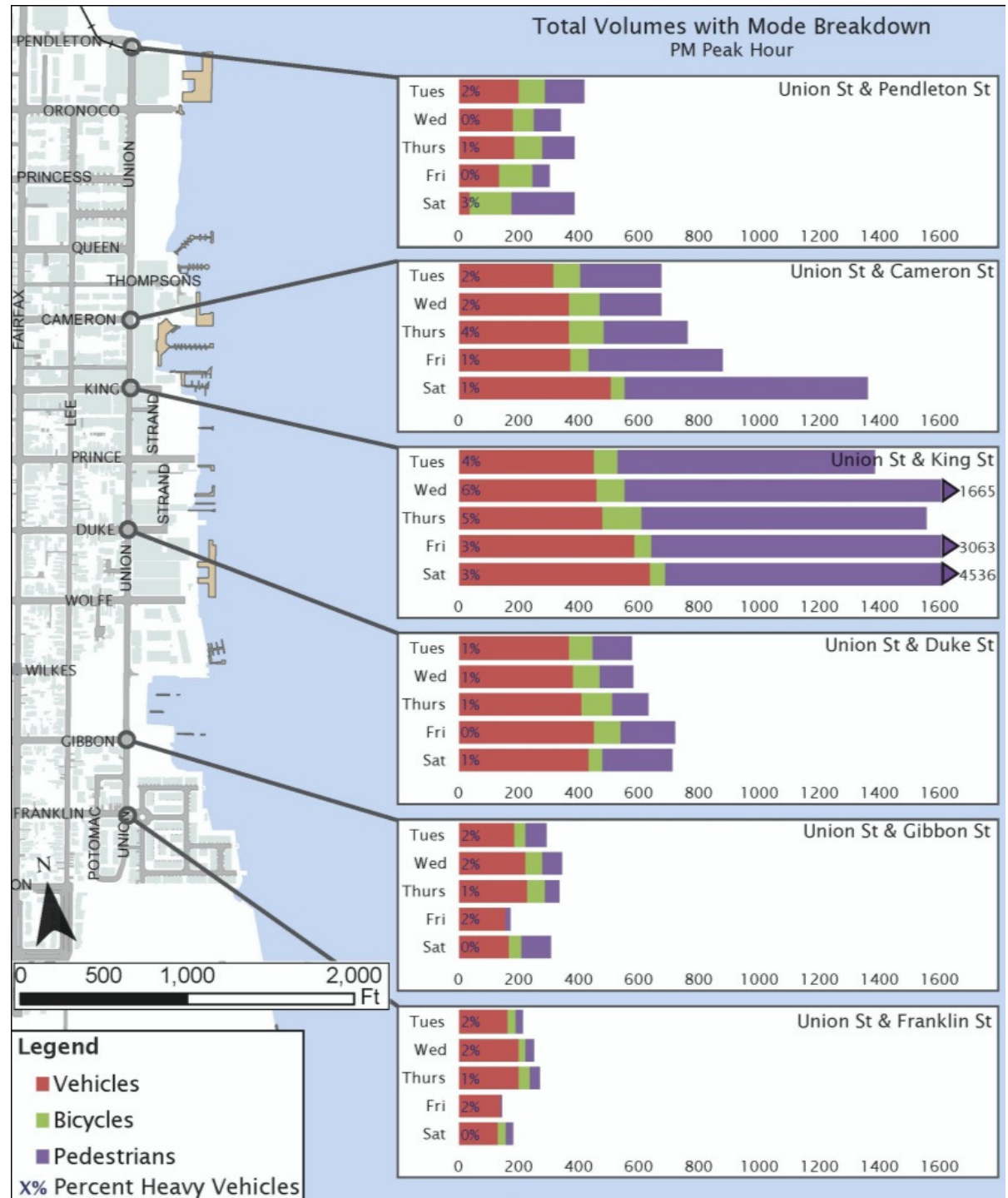
- Traffic volumes highest Friday to Sunday
- Motorist speeds slow
- Bicyclists volume highest mid-day on Saturday
- Pedestrian volume off the charts!



# Turning Movement Counts

## Thursday Evening

- Union & King
  - 482 cars
  - 950 peds
- Fairfax & King
  - 759 cars
  - 503 peds
- Wash. & King
  - 3,344 cars
  - 603 peds





# Discussion Question (1/4)

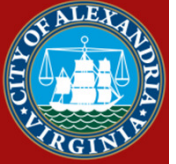
What is **working well** on Union Street today and what is **not working well**?  
How has it **changed over the years**?





# Discussion Question (2/4)

What are the **most important competing needs** that we will need to balance as part of our effort?



# Discussion Questions (3/4)

Which of the issues that exist today can be addressed through **physical and/or operational changes** and which have **more to do with behavior?**





# Discussion Questions (4/4)

**At the end of our process, how will we know that we have succeeded?**